**Snapshot Day 10/20/16 Data**

**Mohawk River Valley**

**SCHOHARIE RIVER SITE RIVER MILE**

**Middleburgh, NY**

**Mollie Burgett, Middleburgh High School & 11 students 11/12th grade**

**42.599109 Lat and -74.331429 Long**

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**Location:** On the Schoharie Creek, creek access point is below Timothy Murphy Park Middleburgh, Schoharie County

Sample location runs right along river street (one of the main streets in the village) and is

full of cobbles, some grasses and short shrubs under 4 feet tall. The trees along the bank on one side make a break between the road and the creek and the other side divide the creek from farm fields.

**Surrounding Land Use:** 20% urban/residential, 20% farmland, 20 % forested, 30% beach, 10% industrial/commercial

**Shoreline:**  Banks altered, Riprap, Concrete blocking, rocky, 1 stormdrain of some sort occasionally discharges in to the creek just south from the sample site - ~200 ft. down. Lots of cobbles in stream channel, area covered in vegetation

**River Bottom:** Mostly rocky although sandy and muddy and brick on ground

**Water Depth:** 0-120 cm

**Water Conditions:** Calm, clear

**Plants in water:** no

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***ITEM*** | ***Time*** | ***Reading 1*** | ***Reading 2*** | ***Comments*** |
| ***Physical***  |   |  |  |  |
| Air Temperature | 1:30 PM | 12.5°C |  |  |
| Wind Speed |  | Beaufort #2 | South  |  |
| Cloud Cover | 1:30 PM | Overcast  |  |
| Weather today | 1:30 PM | Rain off and on |
| Weather recently | 80°F dry weather last 2 days |
| ***Water Temperature*** | 1:10 PM1:10 PM1:21 PM | 12°C1213 | ***Average***  | 12.3 °C |
| ***Turbidity - 60 cm******Site tube*** | 12:50 PM  | 14.9 cm | **Storm water outflow** |  |
|  | 12:45 PM  | 38.3 cm | **Main Stem**  |  |
|  | 12:55 PM  | 34.6 cm |  |  |
|  | 1:40 PM | 10 cm |  |  |
| ***Chemical*** |  |  |  |  |
| DO – drop count –  |  Time  | Temp | ppm DO | % saturation |
| ***Bridge*** | 1:10 PM1:45 PM | °C | 12 ppm | 110%  |
| ***Under Bridge***  | 1:10 PPM |  | 13 | 120% |
| ***Riffle***  | 1:45 PM1:21 PM | °C | 1513  | 140%120% |
| ***Outflow*** | 1:45 PM |  | 11  | 1035 |
| pH – test strips***Average - 6.5*** | ***1:03 PM******1:09 PM******1:15 PM*** ***1:30 PM***  | 7, 77, 766 | ***Average*** | 6.5 |
| ***Flow Rate (no current up here)*** | Riffle  | 69 cm/sec | Used apple | Slow moving water |
| ***Nitrates*** | 1:09 PM1:40 PM | 0 ppm0 ppm  | Under bridge |  |
| ***Phosphates*** | 1:14 PM1:35 PM | 0 ppm0 ppm  | Under bridge |  |
|  | Main stem of creek at surface | Moved backwards because of wind |  |  |
| ***Fish –6 ft. net 5 meter pull – Haul 1*** | 1 | Northern Hog Sucker | 9 cm -  | **DIV – 2****TOTAL- 5** |
| ***(Nothing haul 2)*** | 4 | Eastern Silvery Minnow |  |  |
| ***Haul 3***  | 6 | Eastern Silvery Minnow |  | **Div – 1****Total 6** |
| ***Haul 4*** | 3 | Northern Hog Sucker |  | **Div – 2****Total 8** |
|  | 5 | Eastern Silvery Minnow | 7 cm |  |
| ***Fish Totals*** | **DIV 2** | **TOTALS 19** |  |  |
| ***Macroinvertebrates***  | ***Number***  | ***Species*** |  | **Diversity 9** |
| ***Kicknet &hand net*** | 20 | Fishfly larvae |  | **Totals 183** |
|  | 21 | Mayfly larvae |  |  |
|  | 9 | Helgramite |  |  |
|  | 27 | Stonefly |  |  |
|  | 2 | Water Beetle |  |  |
|  | 5 | Water Penny |  |  |
|  | 10 | Rusty Crayfish |  |  |
|  | 9 | Aquatic Worms |  |  |
|  | 80 | Caddisfly |  |  |
| ***Observations*** | 1 bald eagle, 2 ducks (species unknown), flock of geese’ |